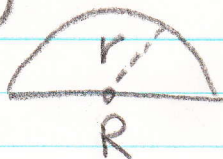


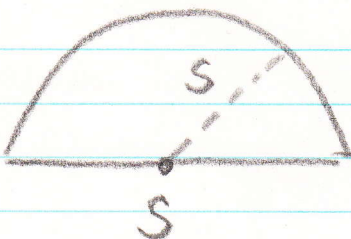
#4 (5p)



GIVEN:  
SEMICIRCLE R ~ SEMICIRCLES

$$\frac{r}{S} = \frac{3}{5}$$

$$\text{AREA OF SEMICIRCLE } S = 75\pi \text{ cm}^2$$



AREA OF SEMICIRCLE R - ?

$$\frac{A_r}{A_s} = \frac{3^2}{5^2} = \frac{9}{25}$$

$$\frac{9}{25} = \frac{x}{75\pi}$$

← SMALL SEMICIRCLE

← LARGE SEMICIRCLE

$$25x = 9 \cdot 75\pi \quad x = \frac{9 \cdot 75\pi}{25} = 27\pi \text{ cm}^2$$

#5 (1p)

$$\left(\frac{1}{7}\right)^2 = \frac{1}{49}$$